

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-052870

(43)Date of publication of application : 23.02.2001

(51)Int.Cl.

H05B 33/14

C09K 11/06

H05B 33/12

H05B 33/22

H05B 33/26

(21)Application number : 11-345071

(71)Applicant : TDK CORP

(22)Date of filing : 03.12.1999

(72)Inventor : KOBORI ISAMU
INOUE TETSUJI
FUJITA TETSUJI
NAKATANI KENJI

(30)Priority

Priority number : 11157176 Priority date : 03.06.1999 Priority country : JP

(54) ORGANIC ELECTROLUMINESCENT ELEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently emit the blue light with excellent reliability by including a hole injection transporting compound and/or an electron injection transporting compound included in a hole transfer layer and/or an electron transfer layer as a host compound in a blue light emitting layer.

SOLUTION: As a host compound to be included in a blue light emitting layer, a compound, which emits the blue light, such as a phenylanthracene derivative is desirably used. In the case where the host material of the blue light emitting layer does not have the blue light emitting characteristic, a dopant can be used so as to change the light emitting characteristic for blue light emission, and as a dopant, a styryl group amine compound or the like is used. As the blue light emitting layer, a mixture layer of an electron injection and transfer compound (A) and a hole injection and transfer compound (B) can be used. In this case, the component A and the component B can be mixed evenly, or distributed in the film thickness direction so that concentration of the component B is higher at a hole transfer layer side and that concentration of the component A is higher at the electron transfer layer side.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's]

1 decision of rejection]

* [Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office